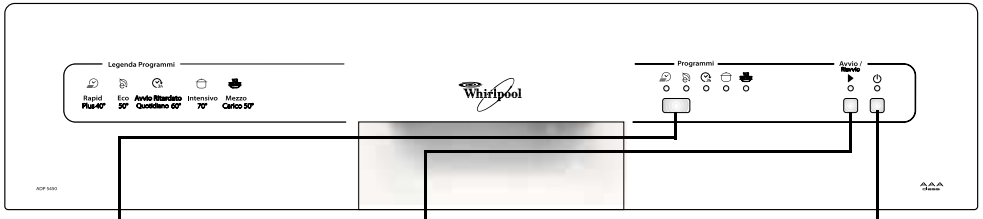


PROGRAMME SELECTION BUTTON
Push "Programs" button (repeatedly) until the indicator of the required programme lights up (see "Table of programmes" below).

START/RESUME BUTTON
Push this button to start the selected programme: the indicator lights up and goes off at the end of the programme. When the door is opened during a washing cycle, the cycle is temporarely paused: the Start indicator blinking. To restart the cycle close the door and push Start button again.

BUTTON ⏻
Push this button to switch on or switch off the control panel.
If pressed when a programme is running it cancels the programme ongoing.
If the indicator flashes repeatedly, see page 5 - chapter "What to do if ...".

BEFORE USING THE APPLIANCE FOR THE FIRST TIME CAREFULLY READ THIS QUICK REFERENCE GUIDE AND THE ASSEMBLY INSTRUCTIONS!

THE CONTROL PANEL OF THIS DISHWASHER ACTIVATES PUSHING ANY BUTTON.
FOR ENERGY SAVING THE CONTROL PANEL DEACTIVATES AUTOMATICALLY AFTER 30 SECONDS IF ANY CYCLE IS STARTED.

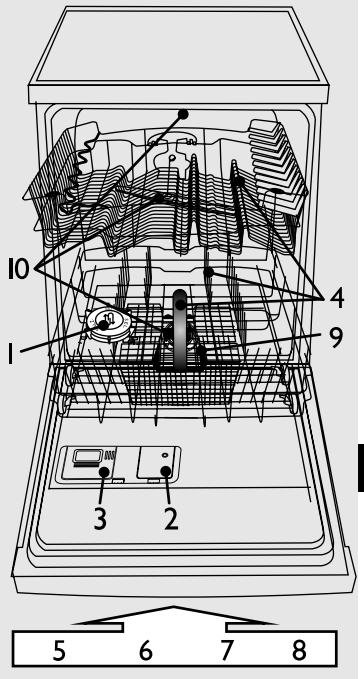
Table of programmes					Deter-gent	Consumption		
P	Programmes			Loading instructions		Litres	kWh	Minutes 1)
1		Quickwash	40°C	Lightly soiled crockery, with no dried-on food.	X	13.0	0.70	30
2		Eco 2)	50°C	Normally soiled crockery.	X	15.0	1.05	150
3	3h	Daily delay 3h	60°C	This programme is activated after 3 hours, recommended for normally or heavily soiled crockery.	X	16.0	1.35	120
4		Intensive	70°C	Recommended programme for heavily soiled crockery, especially suitable for pans and saucepans.	X	17.0	1.65	145
5	1/2	Half Load	50°C	Ideal for washing a half load of lightly or normally soiled crockery.	X	13.0	1.00	130

1) **Programme data obtained in conformity with European standard EN 50242, obtained under normal conditions (without additional options) and may vary depending on conditions. Differences of up to 20 minutes are possible with sensor programmes as a result of the appliance's automatic calibration system.**
2) **Reference programme for energy label in compliance with EN 50242 regulations. - Note for Testing Institutes: for detailed information on the EN/Standard loading comparison test and other tests, contact the following address: "nk_customer@whirlpool.com".**

ADP 5450

5019 396 01817

How to set water hardness in order to always assure the best cleaning results



1- salt reservoir
2- rinse aid dispenser
3- detergent dispenser
4- racks system
5,6,7,8- available functions on the panel
9- filters
10- spray arms

Water hardness should be set only before the first wash or if water hardness has been changed

- Press and hold together **Programs** and ⏻ buttons for minimum 3 seconds.
- Programmes LEDs will indicate the water hardness setting.
- Press the **Programs** button to increase setting (when the level reaches 7, the next key press will set the level back to 1.
- Wait 30 seconds (control panel switches off) or press **START/Resume** button to save setting.

1. Ask your water supply company what the **water hardness** is...					**2.** ...enter this value on your dishwasher		Suggestions for detergent use	
German degrees °dH	French degrees °fH	English degrees °eH	Water hardness level		3 first PROGRAM LEDs lit on the panel (see table of programmes) P1 P2 P3		Gel or Powder (rinse aid and salt)	Tablets
0 - 5	0 - 9	0 - 6.3	Soft	1	● ○ ○		go to step 1 (see "Daily check")	if water is HARD extra salt needs to be added (go to step 1, "Daily check")
6 - 10	10 - 18	7 - 12.6	Medium	2	○ ● ○			
11 - 15	19 - 27	13.3 - 18.9	Average	3	● ● ○			
16 - 21	28 - 37	19.6 - 25.9	Medium-hard	4	○ ○ ●			
22 - 28	38 - 50	26.6 - 35	Hard	5	● ○ ●			
29 - 35	51 - 63	35.7 - 44.1	Very hard	6	○ ● ●			
36 - 60	64 - 107	44.8 - 74.9	Extremely hard	7	● ● ●			

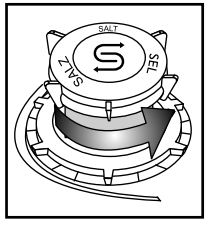
ⓘ Water hardness level is factory set for medium-hard water (level 4).

⚠ Even if you use tablets which include salt, you must still add regeneration salt since such detergents are not effective enough at softening hard water.

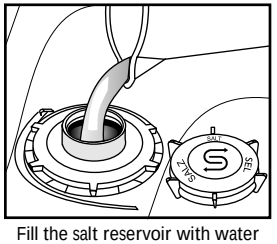
⚠ **At first time use, the salt reservoir has to be filled independently from water hardness level** (see description below in step 1 "Daily check").

Filling the salt reservoir - Dissolve limescale (not necessary if water hardness level is set to "soft"!)

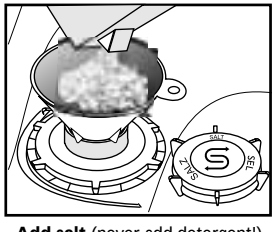
1



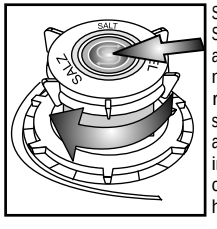
Visual indicator (depending on the model). Unscrew cap.



Fill the salt reservoir with water before the first wash only.



Add salt (never add detergent!) min. 1.5 kg / max. 2 kg



Screw on the cap. Salt residual around the cap need to be removed. Some salt reservoir have a level indicator integrated in the cap (see below how to check).

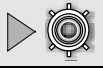
ⓘ The salt level indicator lamp may remain lit at the end of several wash cycles. If the water hardness level falls within category (soft), no salt is required.

(depending on the model)

Salt indicator on the control panel

The indicator lamp lights up when SALT NEEDS TO BE ADDED.

Salt indicator on the salt reservoir cap

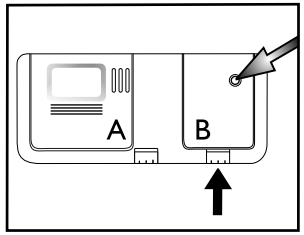


orange: OK.

clear: NEEDS TO BE ADDED

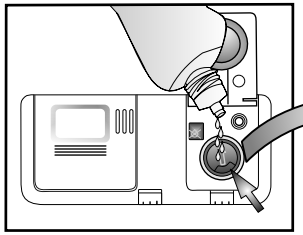
Adding rinse aid (not necessary when you use tablets). How to adjust the rinse aid dosage regulator

2

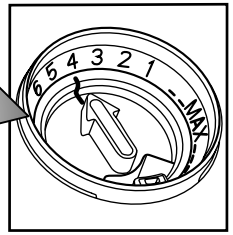


Visual indicator

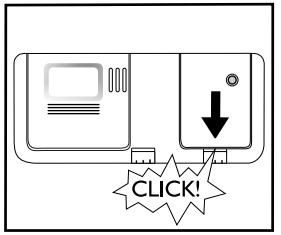
If required, open the cover B (press the dedicated button).



Add **rinse aid** to the max. line ~150 ml



The rinse aid dosage can be adjusted to the detergent used. The lower the setting, the less rinse aid is dispensed (factory setting: position 4).
Press the button to open the cover B. Using a coin or similar object, turn the arrow to the desired setting. After adjusting the rinse aid setting, shut the cover again.



Check the rinse aid indicator to check the level into the dispenser.

(depending on the model)

Rinse aid indicator on the control panel

The indicator lamp lights up when RINSE AID NEEDS TO BE ADDED.

Rinse aid indicator on the dispenser

dark: OK.

clear: NEEDS TO BE ADDED

Only use rinse aids recommended for use in domestic dishwashers. **Immediately** wipe away any rinse aid spilt accidentally. This prevents the formation of excess suds which can cause a fault function of the appliance.

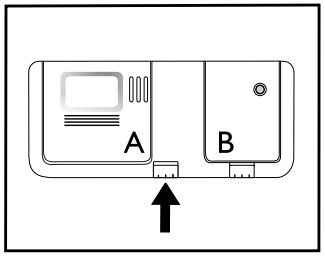
If there are streaks: reduce the dosage by turning the dial to a lower setting (1-3). If crockery is not perfectly dry: increase the dosage by turning the dial to a higher setting (5-6). Plastic dishes have more difficulty drying and a higher rinse aid setting will not improve the situation.

Detergents with rinse aid incorporated may be effective only with longer programmes. In the case of shorter programmes, detergent residue may be a problem (if necessary, use powder detergent). Detergents with rinse aid incorporated tend to form excess suds.

Adding detergent - Use only detergent specifically for dishwashers in accordance with the supplier's recommendations

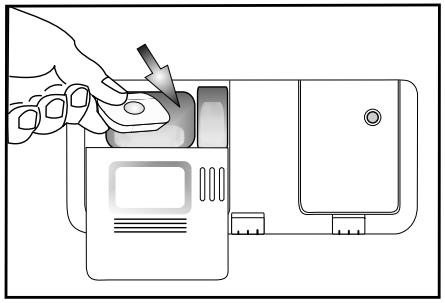
Open the cover A
(press the dedicated button).

3



Insert detergent: **Tablet / powder / liquid** into the big chamber

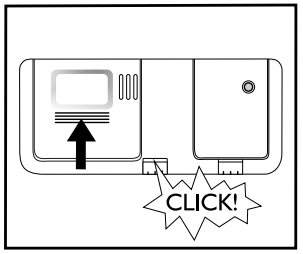
Only fill the detergent dispenser prior to starting a wash programme.



Use only one tablet per one cycle, only placed in detergent dispenser.

All types of tablets can be used, but for 2 in 1 type adding of salt is mandatory.

Shut the cover
by pressing dedicated ribs.



How to load UPPER RACK

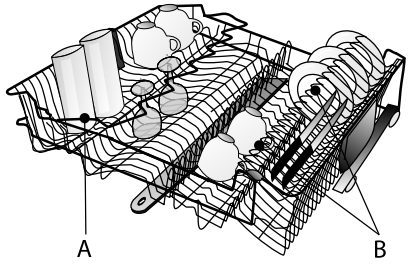
4

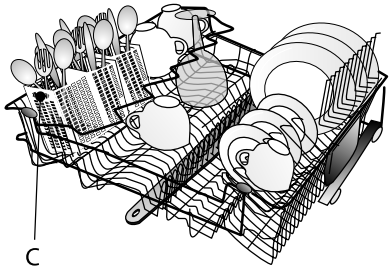
A - Glass-holder for long stem glasses: it can be adjusted in 2 different positions according glasses shape.

B - Adjustable flaps: in horizontal position for cups/ long utensils, in raised position for plates.

(in some models only)

C - Cutlery basket: it can be placed in the upper rack when the "Half load/Multizone" option is selected.

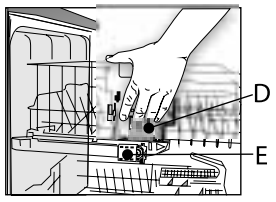




How to adjust upper rack height (if available).

It could be useful to lift up the upper rack to have more space in lower rack or bring it down to load long stem glasses.

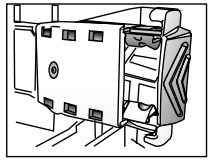
- Grasp and take out the two lateral handles (**D**) (they must be on the same level) and lift up or take down the upper rack.



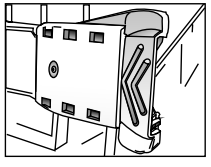
How to remove the upper rack (if available)

It could be useful to remove the upper rack to load bulky items in the lower rack.

- Open the two retainers (**E**) to take off the upper rack (when the upper rack is in place the retainers must always be closed).



E - CLOSED



E - OPEN

How to load LOWER RACK

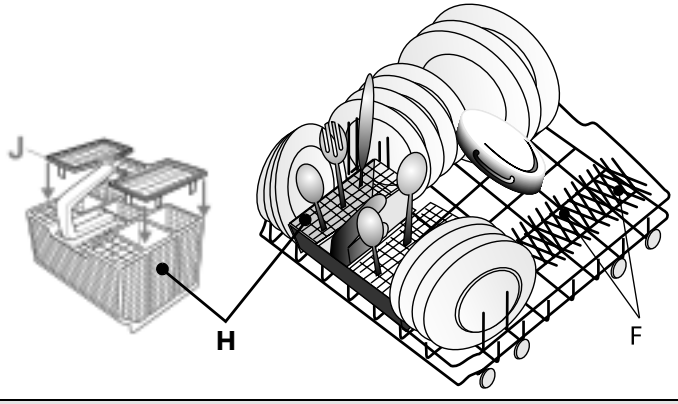
(depending on the model)

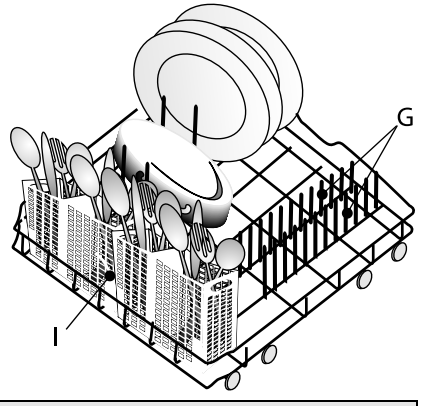
F - Foldable plate holders: They can be folded down to load pots or

G - Fixed plate holders

H - Cutlery basket (or **I** model)

J - Grid: Helps to keep the cutlery separate for better washing results.





5

Arrange crockery so that water does not collect in cavities, ensuring that the spray arms turn freely. Only use dishwasher-proof crockery and dishes. Do not use the dishwasher for washing wooden items, aluminium, tin, silver cutlery or decorated crockery (unglazed). In the baskets, dishes (e.g. plates, bowls, pots) must be placed in a correct way to let water flow down!

Switching on the appliance. Press any button to exit Standby and enter programme selection mode.

Select programme Quick, permanent or alternating

6 **Overview of programmes**

The max. possible number of programmes is illustrated in the chapter “Chart”. The corresponding programmes for your appliance can be found on the panel (page 1).

Choose programme according to the attached table of programmes (page 1).
Duration of the programme depends on the external conditions in the apartment, temperature and pressure etc.

Wash cycle

7 The dishwasher door must be closed and the water tap open.

To pause the programme (e.g. if you want to insert an item):

- Open the door with caution (the programme pauses) and insert the item/s, **(beware of HOT steam!)**.
- Close the door and press the **START** button again to restart the cycle (the programme resumes the cycle from where it was interrupted).

To Cancel the programme on running:

- Press the button ⏻.
- (Water drains for up to 30 seconds then the appliance switches off).

To change the programme in progress:

- Press the button ⏻ to cancel the programme on running.
- (Water drains for up to 30 seconds then the appliance switches off).
- Press any button to switch on the appliance.
- Select a new programme.
- Press the **START** button.

Switch off the appliance Everything o.k. ...

8 Exercise caution when opening the door: beware of hot steam.

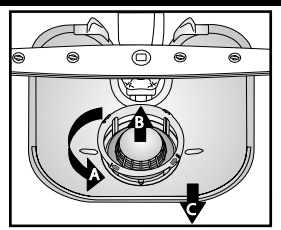
Only press the button ⏻ once to turn the appliance into Standby mode.

All the indicator lamps switch off. Unload the appliance, starting from the lower rack in order to avoid any residual drips of water falling onto crockery below.

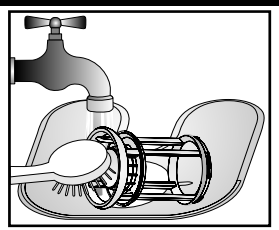
Maintenance and care

Maintenance and care

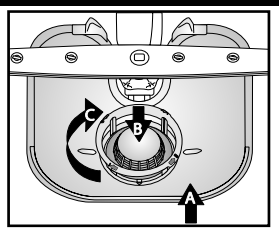
9 **Filters**
Check and clean if necessary



Unscrew filter cylinder, remove it and fine sieve...

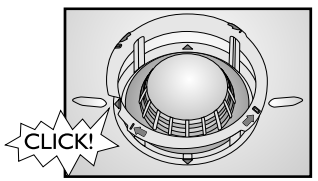


Rinse under running water ...



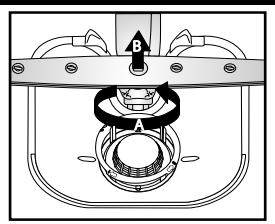
Insert

Screw on filter cylinder NOTE MARK!

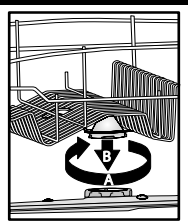


Rectifying minor faults yourself ...

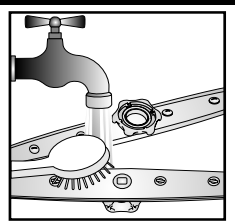
10 **Spray arms**
Remove blockages/ deposits.



Unscrew and remove lower arm ...

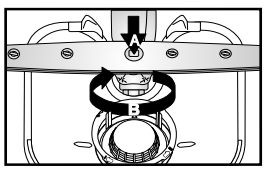


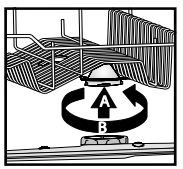
Unscrew and remove upper arm ...



Clean spray nozzles under running water (use toothpicks if necessary) ...

Insert and screw on lower and upper arms tightly.





If a fault occurs, before contacting the After-sales Service, make the following checks to try and remedy the problem.
Most faults can be remedied by taking the courses of action, quickly restoring normal appliance operation.

The appliance...	Possible causes...	Solutions...
...is not working/not start	- The appliance must be switched on.	- Check the household circuit fuse if there is no power supply.
	- The dishwasher door doesn't close.	- Check if the dishwasher's door is closed.
	- "Delayed start" option is ON.	- Check whether the "Delayed start" option (if available) has been selected. If it has, the appliance will only start once the set time has elapsed. If necessary, set the delayed start to "0" (RESET the appliance).
...the indicator lamp ⏻ blinks 6 times	- Water tap closed.	- The water tap must be open.
	- Kinked water inlet hose or clogged inlet filters.	- The water inlet hose must not be kinked and the relative inlet filter in the water tap connector must not be dirty or clogged.
	- Water pressure too low.	- The water tap must be fully open during water inlet (minimum capacity: 0.5 litres per minute).
...the indicator lamp ⏻ blinks 6 times and wash programme ended too early (dishes are dirty and wet)	- Dirty or clogged filters.	- The filters must not be dirty or clogged.
	- Too little water in the dishwasher's water system.	- Concave items (e.g. bowls, cups) must be arranged facing downwards in the rack.
	- Drain hose incorrectly fitted.	- The drain hose must be fitted correctly (for high mounted appliances, leave min. 200-400 mm from the lower edge of the appliance) - see Assembly instructions.
	- High level of foam inside.	- Repeat without detergent or wait until foam disappears.
...the indicator lamp ⏻ blinks 8 times	- Dirty filters.	- Clean the filters.
	- Kinked drain hose.	- The drain hose must not be kinked.
	- Syphon hose connection closed.	- The closure disk of the syphon hose connection must be removed.

After taking the above course of action, the fault message must be reset. In the majority of cases the fault is thus eliminated.

RESET:
- ➔ Press the button ⏻.
- ➔ Close the door.
- ➔ Water drains automatically for up to 30 seconds.
- ➔ The appliance is now ready to be restarted.

Crockery and cutlery...	Possible causes...	Solutions...
...are not perfectly clean/have food residues	- Too little space between dishes (incorrect arrangement of the concave items in the rack).	- Arrange crockery so that items do not touch each other. Concave items (e.g. bowls, cups) must be arranged facing downwards in the rack.
	- Too little detergent; detergent too old or incorrectly stored.	- If necessary, use more detergent, observing the manufacturer's indications as regards dosage. Always store detergent in a dry place and do not store it for excessively long periods of time.
	- Temperature not high enough for heavily soiled crockery.	- For heavily soiled crockery, select a wash programme with a higher temperature (see table of programmes - page 1).
	- Loading of the dishwasher using lower and upper rack at the same time with "Half load/Multizone" option.	- If you select the "Half load/Multizone" option (if available), remember to load **only** the upper rack or **only** the lower rack to increase washing power and thus obtain optimum wash results.
	- Frequent use of Eco 50°C.	- In the event of frequent use of the Eco 50°C programme (if available), from time to time select the Intensive 70°C programme (if available).
	- Clogged spray arms, dirty filters or not fitted correctly.	- The spray arms must not be clogged, the filters must not be dirty and must be fitted correctly (see page 5, "Maintenance and care").
	- Spray arms stuck impeded by crockery or cutlery.	- The spray arms must be able to turn freely and must not be impeded by crockery or cutlery.

Crockery and cutlery...	Possible causes...	Solutions...
...salt indicator lit	- Use tablets for soft water.	- Set “Tablet” option; if this option is not available, it is normal for the salt indicator to light up.
...have deposits: regeneration salt residue	- Water too hard.	- In areas with very hard water, more regeneration salt needs to be added (see page 2, “How to set water hardness”).
	- Salt reservoir cap open.	- Close the salt reservoir cap properly.
	- Not enough rinse aid.	- If you use a combined action detergent, try adding more rinse aid.
...are not dry	- Plastic containers dry badly.	- Synthetic materials do not dry well; if wet at end of cycle, wipe dry.
	- Clean dishes left in dishwasher for a long time after end of cycle (e.g. when using “Delayed start” option).	- In this situation, the presence of drops of water on dishes and on the sides of the dishwasher is normal. Try releasing the door 5 minutes before removing the dishes.
	- Incorrect arrangement of the concave items in the rack.	- Arrange crockery so that water does not collect in cavities.
	- Incorrect dosage the rinse aid.	- Increase the dosage of rinse aid (see page 3, “Adding rinse aid”).
	- Rapid programme selected.	- The rapid programme is intended for quickly washing lightly soiled dishes. If used for a full load of medium/ heavy soiled dishes, the dishes may not dry completely. If so, select a standard-length programme. For best results, open the door after the end of the programme and wait 15 minutes before unloading the dishwasher.
...have discoloured plastic parts	- Tomato/Carrot juice.	- Tomato sauce, for example, can lead to discolouring of plastic parts. Powder detergent is recommended as it allows slightly higher doses to be used for improved whitening. Programmes with higher wash temperatures should be used.
...opaque glasses, etc.	- Dishes unsuitable for washing in dishwashers (porcelain),	- Only use dishwasher-proof crockery and dishes.
...removable deposits on glasses	- Usage of incorrect programmes for glasses.	- Dishes should be put together, to avoid touching each other. Do not put glassware together in baskets. Use suitable programme for glass.
...glasses not sparkling	- Not conform of glasses to washing in dishwashers (porcelain).	- Some kinds of glass cannot be washed in the dishwasher.
...permanent deposits on glasses	- Rainbow effect.	- This phenomenon is irreversible. We recommend in future: - Change the control of system of dosage of softener. - Be careful – follow recommended detergent dosage. - For combined action tablets see detergent producer’s recommendations.
...tea cups darken and dirt does not disappear after washing in dishwasher	- Not known.	- This phenomenon is inevitable. Theine alters colours permanently.
...rust marks	- Pre-wash programme not used.	- Salty or acidic food residues can cause rust marks even on stainless steel cutlery. To avoid this, always use the pre-wash programme if the dishes are to be washed later.
...other marks	- Rinse aid dosage too low.	- In the presence of marks, increase the rinse aid dosage (see page 3, “Adding rinse aid”). - If you use a combined action detergent, possibly add more rinse aid.
...streaks	- Rinse aid dosage too high.	- In the presence of streaks, reduce the rinse aid dosage (see page 3, “Adding rinse aid”). - If you use a combined action detergent try adding more rinse aid.
...suds	- Unsuitable dosage of detergent/rinse aid.	- Only use the amount of detergent/rinse aid required, since excessive amounts can lead to excess suds.

Disconnect the mains plug

What to do if...

If, after carrying out the above checks, the fault persists, disconnect the mains plug and turn off the water tap. Contact the After-sales Service (see warranty).
Before contacting our After-Sales Service, take note of the following:

- **the description of the fault,**
- **the appliance type and model,**
- **the service code (the number indicated on the adhesive rating plate) inside the door on the right-hand side:**

Precautions and general recommendations

1. Packing
The packaging materials are 100% recyclable and marked with the recycling symbol .

2. Removing the packaging and inspecting the contents
After unpacking, make sure that the dishwasher is undamaged and that the door closes correctly. If in doubt, contact a qualified technician or your local retailer.

3. Before using the dishwasher for the first time
- The appliance is designed to operate at ambient temperatures of between 5°C and 45°C.
- This dishwasher has been tested by the manufacturer to ensure it functions correctly. Such testing may leave slight drips/water marks which will disappear with the first wash.

4. Energy and water savings
- Do not rinse crockery under running water.
- Always fully load the dishwasher before running it or select the “Half load/Multizone” option (if available).
- If ecological energy sources are available such as solar panel heating, heat pumps or centralised heating systems, the appliance may be connected to the hot water mains up to a maximum temperature of 60°C. Make sure the water inlet hose is of the correct type (“70°C Max” or “90°C Max”).

5. Child safety
- Keep the packaging materials out of the reach of children.
- Children must not be allowed to play with the dishwasher.
- Store the detergent, rinse aid and salt out of the reach of children.

6. Safety warnings
- The appliance is not intended for use by children or physically or mentally impaired persons, unless adequately supervised by a responsible adult capable of guaranteeing safe use of the appliance.
- Do not operate the appliance in the open air.
- Do not store flammable materials in close proximity to the dishwasher.
- The water in the dishwasher is not potable.
- Do not use solvents inside the dishwasher: **risk of explosion!**
- Be careful when the door is open: **risk of tripping!**
- The open dishwasher door can only support the weight of the loaded rack when pulled out. Do not rest objects on the open door or sit or stand on it.
- Sharp items that might cause injury (e.g. knives), must be placed in the cutlery basket with the sharp end facing downwards. Long-handled utensils must be arranged horizontally in the upper rack, with the sharp end facing away from the front of the appliance.
- Before cleaning or carrying out maintenance, disconnect the mains plug and turn off the water tap; also in the event of any malfunction.
- Repairs and technical modifications must be carried out exclusively by a qualified technician.

7. Resistance to frost
If the appliance is placed in surroundings exposed to the risk of frost, it must be drained completely. Turn off the water tap, remove the inlet and outlet hoses, and let all the water drain away. Make sure there is at least 1 kg of dissolved regeneration salt in the salt reservoir, to protect the appliance from temperatures of up to -20°C. When the programme resumes, an error message may be indicated (see page 6).

“the indicator ⏻ blinks 6 times” - the appliance must remain at an ambient temperature of min. 5°C for at least 24 hours.
After eliminating these faults, RESET the appliance (see chapter “What to do if...”).

8. Disposal
- The appliance is manufactured using recyclable materials. If you decide to scrap the dishwasher, it must be disposed of in compliance with local waste disposal regulations. Make it unusable by cutting off the power cord. To prevent situations of potential danger to children (e.g. danger of suffocation), break the lock of the door so that it can no longer be closed.
- This appliance is marked according to the European directive 2002/96/CE on Waste Electrical and Electronic Equipment (WEEE). By ensuring that this appliance is scrapped suitably, you can help prevent potentially damaging consequences for the environment and health. Unsuitable disposal of an appliance of this type as household waste could have detrimental effects on the environment. The symbol on the appliance, or on documentation enclosed with the appliance, indicates that this product must not be treated as household waste, but must be delivered to the nearest collection centre for the recycling of electrical and electronic appliances. Disposal must be carried out in accordance with local environmental regulations for waste disposal. For further information on the treatment, recovery and recycling of this appliance, contact your competent local authority, the collection service for household waste or the shop where you purchased the appliance.

EC Declaration of conformity
This appliance has been designed, constructed and distributed in compliance with the safety requirements of EC Directives: CE 2006/95/CE, 89/336/CE, 93/68/CE and 2002/95/CE (RoHS Directive).

Loading Capacity: 12 place settings.

The guarantee is not applicable if faults are caused by incorrect use of the appliance.